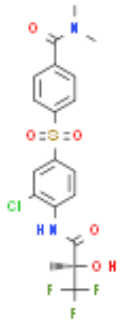
Product Data Sheet

Cas No.:	252017-04-2	Cat. No:	PL09496
Product Name:	AZD7545		
Product synonym:	4-((3-氯-4-(((2R)-3,3,3-三氟-2-羟基-2-甲基-1-氧代丙基)氨基)苯基)磺酰基)-N,N-二甲基苯甲酰胺;4-[[3-氯-4-[[(2R)-3,3,3-三氟-2-羟基-2-甲基-1-氧代丙基]氨基]苯基]磺酰基]-N,N-二甲基苯甲酰胺;AZD7545 抑制剂;(R)-4-((3-氯-4-(3,3,3-三氟-2-羟基-2-甲基丙酰胺基)苯基)磺酰基)-N,N-二甲基苯甲酰胺		
Chemical name:	AZD7545		
MF:	C19H18CLF3N2O5S	FW:	478.8698
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	ClC1C([H])=C(C([H])=C([H])C=1N([H])C([C@](C([H])([H])[H])(C(F)(F)F)O[H])=O)S(C1C([H])=C([H])C(C(N(C([H])([H])[H])C([H])([H])[H])=O)=C([H])C=1[H])(=O)=O		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

AZD7545 是一种有效，竞争性和选择性的 PDHK2 抑制剂，对 PDHK1 和 PDHK2 的 IC50 分别为 36.8 nM 和 6.4 nM。

生物活性	AZD7545 is a potent, competitive, selective PDHK2 (pyruvate dehydrogenase kinase 2) inhibitor with IC 50 s of 36.8 nM, 6.4 nM for PDHK1 and PDHK2, respectively.
IC50 & Target[1][2]	IC50: 6.4 nM (PDHK2), 36.8 nM (PDHK1)
体外研究(In Vitro)	AZD7545 (10 μM; 90 hours for BRAF human melanoma cells and 120 hours for NRAS human melanoma cells) specifically suppresses growth of cells harboring BRAF and NRAS mutations as well as in inhibitor-resistant human melanoma. has not independently confirmed the accuracy of these methods. They are for reference only.Cell Proliferation Assay

体内研究(In Vivo)	A single dose of AZD7545 (Oral administration; 10 mg/kg once a day (08:00 h) or Twice a day (08:00 and 18:00 h); for 7 days) to Wistar rats increases the proportion of liver PDH in its active, dephosphorylated form in a dose-related manner. A single dose of 10 mg/kg also significantly elevates muscle PDH activity in obese Zucker (fa/fa) rats. has not independently confirmed the accuracy of these methods. They are for reference only.
包装储存	Powder -20°C 3 years； 4°C 2 years
溶解度数据	In Vitro: DMSO : ≥ 46 mg/mL (96.06 mM)配制储备液